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Recent Progress with Reflectometer Electron Density Profile Measurements on DIII-D[1] G. WANG, L. ZENG, E.J. DOYLE, T.L. RHODES, W.A. PEEBLES, Department of Electrical Engineering and IPFR, University of California, Los Angeles — Over the past several years, UCLA has been utilizing a continuous frequency-modulated reflectometry system to provide edge and core electron density profiles with high temporal and spatial resolution in support of physics research on DIII-D. Recent improvement in data analysis makes it possible to implement automated profile analysis capability for edge and core X-mode measurements. During the experimental campaign this year, the system provided valuable data for physics research in areas such as the edge harmonic oscillation in QDB discharges, far-SOL plasma transport, density pedestal structure, and other phenomena.

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